

***MATERIAL SAFETY DATA SHEETS***  
***Para-Chem<sup>®</sup>, PO Box 127, Simpsonville, SC 29681***  
***24 Hour Emergency Telephone: (864) 967-7691***

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**SECTION 1. PRODUCT IDENTIFICATION**

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PRODUCT NAME: PARABOND<sup>®</sup> M-4269 Clear Thin-Spread  
CHEMICAL FAMILY: Water Base Adhesive

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**SECTION 2. HAZARDOUS INGREDIENTS AND EXPOSURE LIMITS**

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<u>Chemical Name</u>	<u>CAS Number</u>	<u>% by Weight</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>
Not hazardous as defined by OSHA 29 CFR 1910.1200.				

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**SECTION 3. HAZARDS IDENTIFICATION**

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PRIMARY ROUTES OF ENTRY: Eyes.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

POTENTIAL HEALTH EFFECTS:

EYE CONTACT: May cause slight irritation.

SKIN CONTACT: No effect known.

INGESTION: Not likely to occur. If swallowed, no side effects known.

INHALATION: No effect known.

CHRONIC: None known.

CARCINOGENICITY: This product contains no ingredient listed as a carcinogen by IARC, NTP, or OSHA.

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**SECTION 4. FIRST AID MEASURES**

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EYE CONTACT: Flush with water for 15 minutes. Contact a physician if irritation occurs.

SKIN CONTACT: Wash with soap and water.

INGESTION: Induce vomiting, contact a physician.

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**SECTION 5. FIRE-FIGHTING MEASURES**

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FLASH POINT (°)F: None.

LOWER FLAMMABLE LIMIT: None.

UPPER FLAMMABLE LIMIT: None.

FIRE-FIGHTING INSTRUCTIONS: Use protective clothing and self-contained breathing apparatus.

EXTINGUISHING MEDIA: Water fog, CO<sub>2</sub>, dry chemical, and chemical foam.

DECOMPOSITION PRODUCTS: Dried material may produce CO, CO<sub>2</sub>, H<sub>2</sub>O, N<sub>x</sub>O, and other products from the burning of aromatic hydrocarbons. See Section II.

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## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

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STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Dispense sand, sawdust, or vermiculite. Collect and place in waste container. Wash area thoroughly with water.

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## **SECTION 7. HANDLING AND STORAGE**

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HANDLING: Use good hygienic practices. (Wash hands before eating, using washroom, or smoking.)

Keep out of the reach of children.

STORAGE: Store above 40°F.

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## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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PERSONAL PROTECTIVE EQUIPMENT:

EYE/FACE PROTECTION: Wear splash goggles if contact with material is likely.

SKIN PROTECTION: Wear gloves if contact with material is likely.

RESPIRATORY PROTECTION: Not normally required with good ventilation.

ENGINEERING CONTROLS: Normal room ventilation.

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## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

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BOILING POINT (°F): 212

SPECIFIC GRAVITY (WATER = 1): 1.1

VAPOR PRESSURE: Same as water.

VAPOR DENSITY (air=1): Same as water.

% VOLATILE BY WEIGHT: 38

pH: 9.6

APPEARANCE AND ODOR: Light straw colored paste.

GRAMS VOLATILE ORGANIC COMPOUNDS/LITER OF COATING: 0 (Based on no solvent.)

GRAMS VOLATILE ORGANIC COMPOUNDS/LITER OF MATERIAL: 0 (Based on no solvent.)

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**SECTION 10. STABILITY AND REACTIVITY**

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CHEMICAL STABILITY: Stable.

POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: None.

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**SECTION 11. TOXICOLOGICAL INFORMATION**

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This product has been tested for toxicity (acute inhalation; acute dermal; skin irritation; oral) and has been found to be non-toxic as defined by The Federal Hazardous Substance Act, 16 CFR 1500.3.

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**SECTION 12. ECOLOGICAL INFORMATION**

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No information available.

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**SECTION 13. DISPOSAL CONSIDERATIONS**

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Disposed of in accordance with federal, state and local regulations.

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**SECTION 14. TRANSPORT INFORMATION**

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For domestic transportation purpose, this product is not designated as a hazardous material by the U.S. Department Of Transportation.

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**SECTION 15. REGULATORY INFORMATION**

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TSCA: All ingredients are listed.

SARA TITLE III:

Section 311 and 312 Health and Physical Hazards:

Immediate	Delayed	Fire	Pressure	Reactivity
[ X ]	[ ]	[ ]	[ ]	[ ]

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**SECTION 16. OTHER INFORMATION**

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HMIS RATINGS:	Health = 1	Flammability = 1
	Reactivity = 0	Personal Protective Equipment = B

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Hazard rating scale: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe

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Para-Chem believes the statements, technical information and recommendations contained herein are reliable. They are given without warranty or guarantee of any kind, expressed or implied.

DATE ISSUED: May 8, 1998

PREPARED BY: B. L. Eudy

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## **SOLV-FREE M-4269 Clear Thin-Spread Adhesive (Floor Tile Cement)**

### **ENVIRONMENTAL/PERFORMANCE:**

- Solvent-Free
- Non-hazardous
- Dries clear
- Extended work time
- Outstanding tack level
- 5 Year Warranty

### **DESCRIPTION:**

Parabond M-4269 Solv-Free Clear Thin Spread VCT adhesive is a premium, high strength, latex based adhesive having extremely aggressive "tack". Specifically formulated for the installation of vinyl composition tile and ideally suited for environmental and health conscious areas.

Solvent free and emitting 0 VOC's, M-4269 is highly recommended for use in health care facilities, educational institutions, hospitals, dining areas and occupied office buildings. While this adhesive is designed to meet the challenges of poorly ventilated areas, sufficient air exchanges providing adequate ventilation are still recommended. This adhesive contains no hazardous or carcinogenic ingredients as defined by OSHA, federal or state agencies such as California Prop 65. M-4269 meets all flammability requirements for a Class A Flame Spread Rating as per ASTM-E84. This product is not photochemically sensitive as defined by California Rules 102 and 443.

M-4269 is recommended over APA approved plywood subfloors or those wood underlayments warranted by their respective manufacturer not to stain, delaminate or produce any other condition, which may adversely affect the adhesive or floor covering to be installed. This adhesive may be used over concrete subfloors, (all grade levels), free of excessive moisture or moisture related problems such as alkalinity. We recommend that all concrete subfloors, new or old, be

tested for moisture using the Calcium Chloride Test, ASTM Test Method F1869-98.

M-4269 is the perfect choice for "Tile Over Tile" installations where the existing tile is well bonded and free of floor finish or waxes.

Follow all manufacturers recommendations and industry standards regarding subfloor preparation.

Preferable method of application is with recommended trowel.

M-4269 Clear Thin Spread can be utilized over residual cutback adhesives as long as the majority of the cutback adhesive is removed. Any residual adhesive should feel smooth with sub-floor surface, with subfloor showing through. Problems other than compatibility may occur if the residual adhesive is allowed to remain intact with no removal procedure.

### **SUB FLOOR PREPARATION:**

Additional information with regard to sub floor installation and requirements can be found in ASTM F-710 or CRI 104 and 105. We require that moisture tests be performed on all concrete sub floors regardless of grad level or whether or not the concrete is freshly poured or is classified as an older slab. Moisture testing should be performed by ASTM F 1869 Calcium Chloride Tests with moisture levels not to exceed three (3) pounds per Twenty-Four (24) hours per one-thousand (1000) square feet or ASTM F 2170 in situ Relative Humidity test with readings with moisture levels as measured by this method, not to exceed seventy-five (75) percent. Additional information with regard to these tests and results can be obtained through Para-Chem's Technical Service Department.

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**DIRECTIONS:**

Refer to all manufacturer's recommendations and approvals prior to installation. For indoor use only. For best results install at 70°F (+/- 5°) and 50% R.H. (+/- 5%)

1. Floor must be clean, dry and free from paint, dust or concrete curing compounds, etc.
2. Cracks and uneven surfaces must be filled with an approved latex underlayment compound such as Parabond M-600 mixed with M-620 or 615.
3. Adhesive and floor must be 55°F or higher.
4. Apply adhesive to floor with a brush, roller or fine-notched trowel in a thin uniform coat. Do not spread too thinly if applied by brush or roller.
5. Allow adhesive to dry until it loses milky appearance and does not transfer to finger when touched. This will take fifteen minutes to one hour, depending on temperature and humidity. When dry, the adhesive is tacky.
6. Tile may be installed once adhesive is dry and tacky, and safely installed up to 24 hours later.
7. Install tile, carefully positioning material since it will be difficult to slide tile. Rolling, though not necessary, will improve the initial adhesion. Roll well within 24 hours utilizing a 50-100 lb. three section floor roller.
8. Remove any excess adhesive from tile with fine steel wool and soapy water. Tools may be cleaned with mineral spirits.
9. Keep container tightly covered when not in use.

**PHYSICAL PROPERTIES:**

Base	Synthetic Latex/Resin emulsion
Solids (%)	52
Viscosity (cps)	65,000
Weight/gallon (lbs)	7.95
Open time	Allow to dry until tacky to touch without transfer. Time will be 15 minutes to 1 hour depending on temperature, humidity and air flow.
Flammability	Non-flammable
Shelf life	One year @ 70°F in unopened container
Freeze-Thaw	5 cycles @ 20°F

**FOR MORE INFORMATION READ MATERIAL SAFETY DATA SHEET.****CLEAN-UP:**

Water cleanable when wet.

**COVERAGE:**

225-275 sq. ft. per gallon.

**5 YEAR NO-NONSENSE WARRANTY**

PARA-CHEM Gold Series Adhesives are warranted for 5 years not to discolor or cause adhesive induced staining in today's felt or vinyl backed sheet flooring and/or resilient floor tile.

If an installation failure occurs within 5 years from date of installation as the direct result of defective adhesive PARA-CHEM will cover all materials and if flooring was professionally installed, PARA-CHEM will pay reasonable labor costs. Materials will be of the same type and grade if available. If unavailable or discontinued, PARA-CHEM may refund the initial purchase price.

**LIMITED WARRANTY:**

Our only obligation shall be to replace or pay for any adhesive proved defective when authorized in writing by the company. Beyond the purchase price of materials supplied by us, we assume no liability for any damages of any kind and the user accepts the product "as is" and without warranties, expressed or implied. The suitability of the product for an intended use shall be solely up to the user.

Shelf life limited to one year from date of manufacture.

8-16-02

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